

Abstract Of The Disclosure

A method for receiving radio signals in a mobile station, and a mobile station for sending and receiving radio signals are proposed. The method and the mobile station have the aim of correcting predistorted code-spread and phase-modulated radio signals with respect to a phase error. In this context, in the receiver of the mobile station, the phase is determined for the radio signals, in order to carry out a phase demodulation, and the phases are mapped in a preselected phase zone and averaged, in order to formulate therefrom a phase correction factor, by which the code-despread radio signals are multiplied in order to correct the phase error. The method according to the present invention therefore improves the data detection of the received radio signals.